



08-09-07

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Cofc

Docket No.: 10122/005003
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Toshihiro Fukuda et al.

Patent No.: 7,219,761

Issued: May 22, 2007

For: **MOTOR-OPERATED POWER STEERING
APPARATUS**

**REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 CFR 1.322**

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate

AUG 13 2007

of Correction

Dear Sir:

Upon reviewing the above-identified patent, Patentee noted a typographical error which should be corrected.

On the cover page:

On the cover page, section (30) Foreign Application Priority Data, line 3, "2000-272830" should be --2002-272830--.

The error was not in the application as filed by applicants; accordingly no fee is required.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Also, enclosed is a copy of the cover page of the issued patent, a copy of the

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Updated Filing Receipt, and a copy of page 2 of the Declaration. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Applicants believe no fee is due with this request. However, if a fee is due, please charge our Deposit Account No. 50-0591, under Order No. 10122/005003.

Dated: August 8, 2007

Respectfully submitted,

By 

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US007219761B2

(12) **United States Patent**
Fukuda et al.

(10) **Patent No.:** US 7,219,761 B2
(45) **Date of Patent:** *May 22, 2007

(54) **MOTOR-OPERATED POWER STEERING APPARATUS**

(75) **Inventors:** Toshihiro Fukuda, Maebashi (JP); Shuji Endo, Maebashi (JP); Hiroshi Eda, Maebashi (JP); Osamu Tatewaki, Maebashi (JP); Kenichi Hayakawa, Maebashi (JP); Hirotaka Hatano, Atsugi (JP); Mineki Okamoto, Kisarazu (JP)

(73) **Assignee:** NSK Ltd. (JP)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 6 days.

This patent is subject to a terminal disclaimer.

(21) **Appl. No.:** 10/804,836

(22) **Filed:** Mar. 19, 2004

(65) **Prior Publication Data**

US 2004/0245041 A1 Dec. 9, 2004

Related U.S. Application Data

(63) Continuation-in-part of application No. 10/088,790, filed as application No. PCT/JP01/06319 on Jul. 23, 2001, now Pat. No. 6,851,508.

(30) **Foreign Application Priority Data**

Jul. 21, 2000 (JP) 2000-220404
Jul. 21, 2000 (JP) 2000-220405
Sep. 19, 2002 (JP) 2000-272830

(51) **Int. Cl.**
B62D 5/04 (2006.01)

(52) **U.S. Cl.** 180/444; 180/443

(58) **Field of Classification Search** 180/444, 180/443, 446; 701/41
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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(Continued)

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DE 692 13 363 T2 1/1993

(Continued)

OTHER PUBLICATIONS

Combined Search and Examination Report dated Sept. 5, 2003 issued in a correspondence Great Britain application relating to U.S. Patent No. 4,773,497 submitted as Ref. A1 above, 4 pgs.

(Continued)

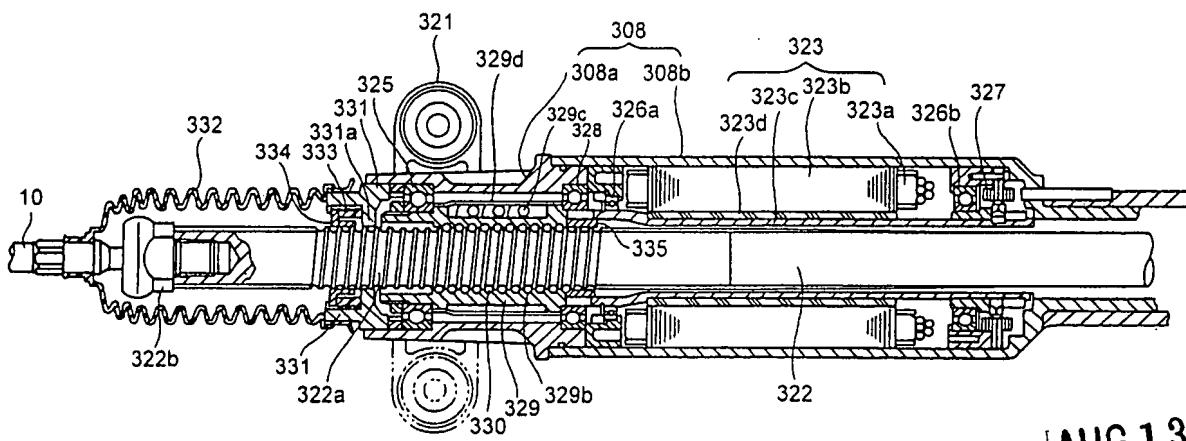
Primary Examiner—Tony Winner

(74) **Attorney, Agent, or Firm:** Osha Liang LLP

(57) **ABSTRACT**

An electrically driven power steering apparatus is structured such that a large impact on a rack shaft occurs upon an impingement of a steering stopper, and, even when an axial force acting on a ball bearing of a presser member becomes zero, a rotation of the presser member is hindered by caulking c at a thin plate member. Therefore, the presser member does not slacken, and a predetermined axial force can be given again to the ball bearing when the impact dissipates. The thus structured power steering apparatus exhibiting, though the cost is low, an excellent shockproof characteristic and capable of preventing the bearing from coming off a ball screw nut, can be provided.

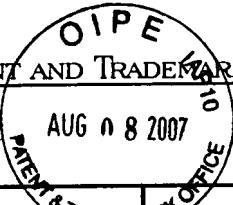
8 Claims, 14 Drawing Sheets



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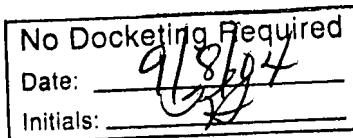


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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/804,836	03/19/2004	3611	900	10122/005003	14	8	2

CONFIRMATION NO. 7548

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UPDATED FILING RECEIPT



OC000000013696811

Date Mailed: 09/02/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Toshihiro Fukuda, Maebashi-shi, JAPAN;
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Osamu Tatewaki, Maebashi-shi, JAPAN;
Kenichi Hayakawa, Maebashi-shi, JAPAN;
Hirotaka Hatano, Atsugi-shi, JAPAN;
Mineki Okamoto, Kisarazu-shi, JAPAN;

Power of Attorney: The patent practitioners associated with Customer Number 22511.

Domestic Priority data as claimed by applicant

This application is a CIP of 10/088,790 08/12/2002 *
which is a 371 of PCT/JP01/06319 07/23/2001
(*)Data provided by applicant is not consistent with PTO records.

Foreign Applications

JAPAN 2000-220404 07/21/2000
JAPAN 2000-220405 07/21/2000
* JAPAN 2002-272830 09/19/2002 *

If Required, Foreign Filing License Granted: 06/02/2004

The number of your priority application, to be used for filing abroad under the Paris Convention is,

AUG 13 2007

US10/804,836

Projected Publication Date: 12/09/2004

Non-Publication Request: No

Early Publication Request: No

Title

Motor-operated power steering apparatus

Preliminary Class

180

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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Prior Foreign Application(s)

外国での先行出願

2000-220404

Japan

(Number)

(番号)

2000-220405

(Country)

(国名)

(Number)

(番号)

2002-272830

(Country)

(国名)

Japan

私は、第3.5編米国法典1.1.9条(e)項に基いて下記の米国特許出願規定に記載された権利をここに主張いたします。

(Application No.) (出願番号)	(Filing Date) (出願日)
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10/088,790	21 March 2002
(Application No.) (出願番号)	(Filing Date) (出願日)
PCT/JP01/06319	23 July 2001
(Application No.) (出願番号)	(Filing Date) (出願日)

私は、私自身の知識に基づいて本宣誓書中で私が行なう表明が真実であり、かつ私の入手した情報と私の信じるところに基づく表明が全て真実であると信じていること、さらに故意になされた虚偽の表明及びそれと同等の行為は米国法典第1.8編第1.0.01条に基づき、罰金または拘禁、もしくはその両方により懲罰されること、そしてそのような故意による虚偽の声明を行なえば、出願した、又は既に許可された特許の有効性が失われることを認識し、よってここに上記のごとく宣誓を致します。

I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed

優先権主張なし

21 July 2000

(Day/Month/Year Filed)

(出願年月日)

21 July 2000

(Day/Month/Year Filed)

(出願年月日)

19 September 2002

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.) (出願番号)	(Filing Date) (出願日)
-----------------------------	------------------------

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Pending

(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,219,761
APPLICATION NO. : 10/804,836
ISSUE DATE : May 22, 2007
INVENTOR(S) : Toshihiro Fukuda et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

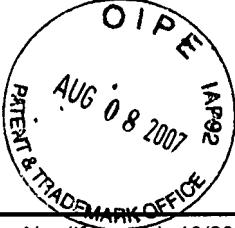
On the cover page:

On the cover page, section (30) Foreign Application Priority Data, line 3,
“2000-272830” should be --2002-272830--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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Application No. (if known): 10/804,836

Attorney Docket No.: 10122/005003

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